

ICAPS

**Interactive Computer
Aided Provisioning System
(ICAPS)**

PCOE - July 2007

ICAPS Project Overview

- ✓ **ICAPS is the one software recognized as the tool for the Navy in performing their provisioning function and the primary means of developing and updating Allowance Lists**
 - ✓ Maritime: Develop and Update Allowance Parts Lists (APLs) and Allowance Equipage Lists (AELs). The Data Repository files are at NAVICP-Mechanicsburg (WSF, MAPL, NSAF, CCF, C10, C14)
 - ✓ Aviation: Develop and Update Allowance Requirement Registers (ARRs). The Data Repository files are at NAVICP-Philadelphia (MIF)
 - ✓ Maritime/Aviation: Assign National Stock Numbers and compute Supply System Stock and Shipboard/Aircraft Allowances
- ✓ **All Interface Files are via the DECC in Mechanicsburg with secondary interfaces with the NAVICP System Stock/Allowance Computations, and DLSC for NSN Screening/Assignment**

ICAPS Project Overview

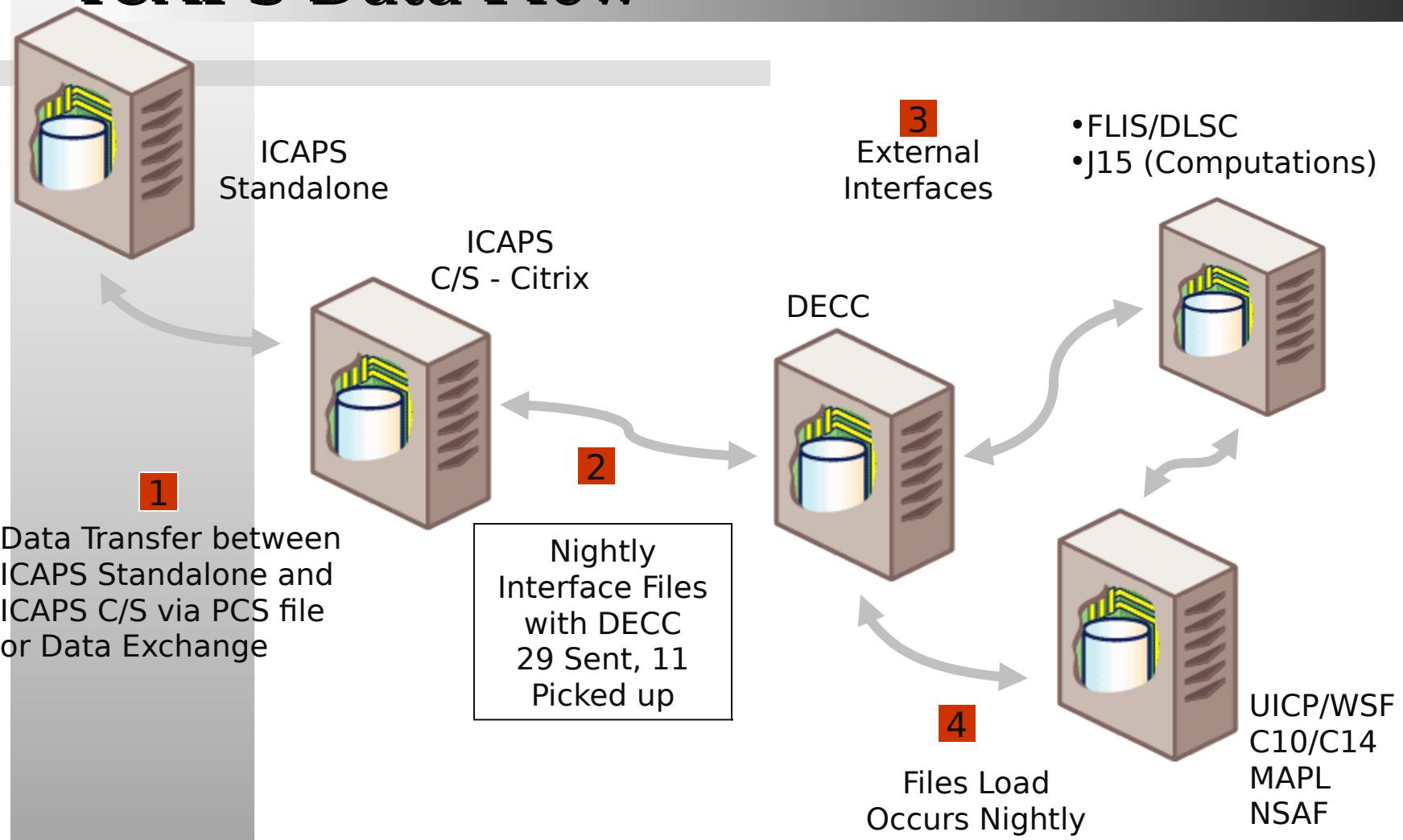
✓ ICAPS Citrix

- ✓ Operates via the Internet utilizing Citrix (No ICAPS Unique Program Required)
- ✓ Accessed from the ICAPS Webpage (<https://icaps.navsea.navy.mil>)
- ✓ Servers/Database at NAVSEALOGCEN Indian Head
- ✓ Shared Data Environment - Concurrently Process Data

✓ ICAPS Standalone

- ✓ Operates in Windows environment on a Standalone PC
- ✓ Data Development (Contractor/TSA Functionality Only)
- ✓ Unique Data Environment - Transfer Routines (Data Exchange/PCS) to Load ICAPS Citrix
- ✓ Additional Users - Coast Guard, Army, Air Force, National Weather Service, Royal Netherlands Navy

ICAPS Data Flow



Current Version/NMCI Users

- **Current Version of ICAPS C/S and Standalone is ICAPS 5.1**
- **Non-NMCI Users can download the installation file from the ICAPS Webpage (**
<https://icaps.navsea.navy.mil>**)**
- **NMCI Users**
 - ICAPS 5.1 - NMCI Certified on June 2006
 - Authority To Operate granted Aug 2006 (expires Aug 2009)
 - MAC Required for NMCI Installation
 - ICAPS 5.1 NMCI Information
 - DADMS 36529
 - CDA RFS 95410
 - Instance - L_ICAPS_51_WIN

Provisioning Process/PTD Release

- **Improved/Simplified APL Development/Maintenance Process**
 - Makes the APL data development and APL Maintenance processing in ICAPS more streamlined.
 - Use of DCN Flag on Header Screen 1 [Identifies type of provisioning effort]
 - N - New APL
 - E - ECP APL
 - U - APL Update (Adds/Deletes)
 - M - Data Element Maintenance (SM&R, QTY, etc.)
 - X - Combination of U and M
 - Color-Coding of Required Data Elements (LMI)
 - Validations are based on type of Provisioning and Project Type
 - Example: APL Updates/Deletes - only CAGE/PN and NIIN required
- **TSA ICAPS Processing Guidance.doc on Webpage under Help and then ICAPS Processing section**

ICAPS (Active/Maintenance) - [Project Headers PCCN ANNNNN]

File Utilities PLISN Access Data Access Reports Transfer Help

Project Header 1	Project Header 2	Status Data	Default/Propagation/Generation/Validation	RIC/UOC/Model Code	ARR Data	CID
PIIN/SPIIN			Nomenclature, Model, Type Number	Prime CAGE		
NO CONTRACT			DCN FLAG OF N	CTSC 32323		
Contractor/TSA/NAVICP			For	Project Type		
Contractor	CTSC	LMI	<input type="radio"/> CaNDI	<input type="radio"/> PAL	<input type="radio"/> HME	1st Key PCCN
TSA	NSLCOSOJAX	NAVICP	<input type="radio"/> 1388-1A	<input type="radio"/> 1388- B	<input type="radio"/> Electronic	List Date 00/00/0000
NAVICP	NSLCOSOJAX		<input type="radio"/> NAVICP- 1	<input type="radio"/> 1552A	<input type="radio"/> Ordnance	2nd Key PCCN
			<input type="radio"/> NAVICP- P	<input type="radio"/> 1552B	<input type="radio"/> Other/AEL	Date Created 02/11/2005
Navy Support	MSD / POC	PSD#	Submission Control	DCN Flag	Calculations	RIC/APL
00/00/0000	0000001	00/00/0000	NO PSD	00001	<input checked="" type="radio"/> On <input type="radio"/> Off	
Remarks						
Save	CCB Data	PLISN Data	Vals On	Close		

ICAPS (Active/Maintenance) - [TSA Provisioning Format Screens PCCN (ANNNNN)]

File Utilities PLISN Access Data Access Reports Transfer Help

◀◀◀◀ ▶▶▶▶ A001 M7679 6556 PLISN SEQ ▾

Data Screen 1 Data Screen 2 Data Screen 3 Data Screen 4 Data Screen 5 P & P

PLISN	TOC	CAGE	Reference Number (Part Number)								EC	Qty / Assembly	Qty / End Item
A001	<input type="checkbox"/> <input type="checkbox"/>	M7679	6556								1	0001	00001
Indenture Code	Reference Designator											NSN Screening Code	
B	123	4567	8901	2345	6789	012	3456	789	012	RDOC	RDC	<input type="checkbox"/>	
INC	COG	MCC	FSC	NIIN	Suffix		Item Name						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
U1	U/I Price	RNCC	RNVC	DAC	PLT	AMC	AMSC	DMIL	MRR I (TRF)		SMR		
BX	\$.00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.0000	<input type="checkbox"/>	PADDD		
MRU	PSPC	NHCI	PMIC	S/A PLISN	NHA PLISN	Prior PLISN	NHA Indicator	PLISN Accept CD	Part Accept CD				
001	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Save Allowance Alt CAGE/Part Hybrid Data PTD Select Add PLISN Apply Defaults **Vals On** Close

ICAPS (Active/Maintenance) - [TSA Provisioning Format Screens PCCN (AAUUUUU)]

File Utilities PLISN Access Data Access Reports Transfer Help

◀◀◀◀◀▶▶▶▶ A004 PLISN SEQ ▾

Data Screen 1 Data Screen 2 Data Screen 3 Data Screen 4 Data Screen 5 P & P

PLISN TOC CAGE Reference Number (Part Number) Qty / Assembly Qty / End Item

A004 45454 54545 EC

Indenture Code Reference Designator NSN Screening Code

123 4567 8901 2345 6789 012 3456 789 012 RDOC RDC

INC COG MCC FSC NIIN Suffix Item Name

012827373

U1 U/I Price RNCC RNVC DAC PLT AMC AMSC DMIL MRR I (TRF) SMR

\$.00 000 000 000 000 000 000 000 0.0000 PAZZZ

MRU PSPC NHCI PMIC S/A PLISN NHA PLISN Prior PLISN NHA Indicator PLISN Accept CD Part Accept CD

000 000 000 000 000 000 000 000 000 000 000 000

Save Allowance Alt CAGE/Part Hybrid Data PTD Select Add PLISN Apply Defaults Vals On Close

Provisioning Process/PTD Release

- **TSA PTD Release Validation Requirement**
 - Validates and verifies the data that is provided by the ISEA/TSA to NAVICP at the time the data is released. This process helps ensure data accuracy and also reduces the amount of packages rejected and/or reworked
 - When the TSA enters a “C” in the TSA Release field to release the data to NAVICP, ICAPS runs a Validation Report
 - If it passes, the Batch Monitor will display “COMPLETE”
 - If it fails, the Batch Monitor will display “Vals Failed” and the Release Code of “C” is removed. You can open up the report in the Batch Monitor to view the errors
 - TSA Project Release Validation Report also under Reports Menu
- **TSA ICAPS PTD Release Process.doc on Webpage under Help and then ICAPS Processing section**

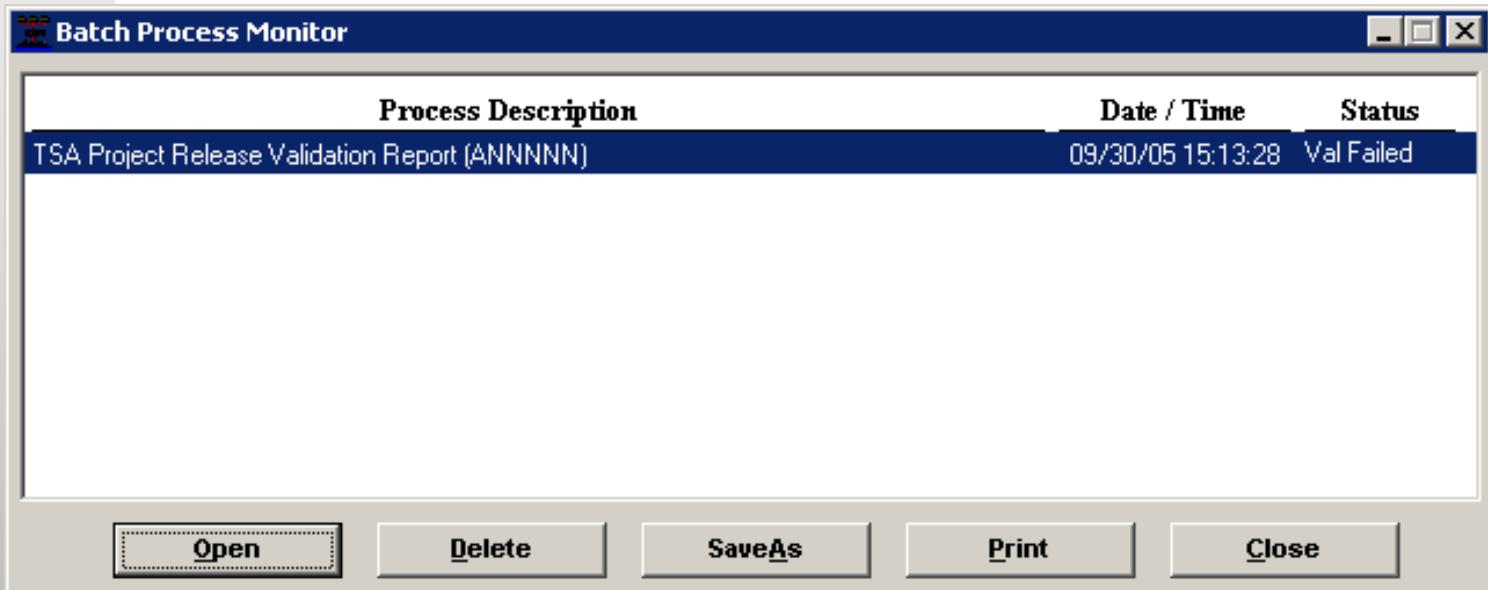
ICAPS (Active/Maintenance) - [Project Headers PCCN ANNNNN]

File Utilities PLISN Access Data Access Reports Transfer Help

Project Header 1	Project Header 2	Status Data	Default/Propagation/Generation/Validation		RIC/UOC/Model Code	ARR Data	CID
TSA Release		TSA Date	TSA Concurrency Required	NAVICP Release	NAVICP Date	Date Loaded To WSF	OR/SI
<input type="checkbox"/> C		00/00/0000	<input type="checkbox"/> N	<input type="checkbox"/>	00/00/0000	00/00/0000	<input type="checkbox"/>
Incremental PCCN	Alteration Indicator	QPEI Method	Select Audit	Archive Upon Completion	Parts Loaded	APL Extract	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> S	<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	
MIF/WSF Refresh	Screen UICP/FLIS	Screening Out Date	Screening Return Date	ODRC	FLIS Out Count	Release to APL Q.A.	
<input type="checkbox"/>	<input type="checkbox"/>	00/00/0000	00/00/0000	9911	<input type="checkbox"/> 0	<input type="checkbox"/>	
Save		CCB Data		PLISN Data		Vals On	
						Close	

Process Description	Date / Time	Status
TSA Project Release Validation Report (AAXXXXX)	09/30/05 15:15:48	Complete

Open **Delete** **SaveAs** **Print** **Close**



A screenshot of a Windows application window titled "Batch Process Monitor". The window has a dark blue header bar with the title and standard window controls (minimize, maximize, close). The main area is a table with three columns: "Process Description", "Date / Time", and "Status". A single row of data is displayed: "TSA Project Release Validation Report (ANNNNN)" in the Process Description column, "09/30/05 15:13:28" in the Date / Time column, and "Val Failed" in the Status column. At the bottom of the window is a light gray toolbar with five buttons: "Open", "Delete", "SaveAs", "Print", and "Close".

Process Description	Date / Time	Status
TSA Project Release Validation Report (ANNNNN)	09/30/05 15:13:28	Val Failed

Open **Delete** **SaveAs** **Print** **Close**

Date 09/30/2005

Interactive Computer Aided Provisioning System Error List for PCCN

Page 1

ID 3500-02

Owner CHAMBERS,RICHARD

NSLCOSOJAX Format LMI

User ID ZGYOUE

PCCN ANNNNN

NAVICP

NSLCOSOJAX

ORSI

PLISN	Erroneous Data Element Title	Invalid Data Element Value	DEN	Rule#	Error Message
A001	ALLOWANCE OVERRIDE DES CODE	E	C007B	6	The Allowance Override (AOR) Code must not = E unless the TSA Activity Designator = NUWC-DETNOR or NFLEC. An AOR of E is restricted for 2M Modular Repair and for use by Naval Facilities only. Please contact the ICAPS Support Desk (icaps@navy.mil) if you have any questions.
A001	DEMILITARIZATION CODE		D017	2	Demilitarization Code must not = blank
A001	DESIGNATED REWORK POINT		F016	3	Designated Rework(Overhaul) Point (F016) not = blank if SM&R position 1 = P, position 5 = D or K and NIIN = blank
A001	MAINTENANCE REPLACEMENT RATE I	0.0000	F027A	3	Must not be 0 if position 1 of the Source Code = P and the NIIN is blank
A001	REMAIN IN PLACE INDICATOR	X	F078	10	A RIP Code of X is invalid for new Depot Level Repairables. A RIP Code of X indicates that the item has not been screened for RIP worthiness. Please review this assignment and assign a valid RIP (such as "N" to identify that the item is not RIP worthy)
A001	PRODUCTION LEAD TIME	0	B010A	3	PLT may not be zero SM&R position 1 = P and NIIN = blank

A001 UNIT OF ISSUE PRICE 0.0000 B052 F UT PRICE 0.0000

Save As

Print

Print SetUp

100

Close

ICAPS Key Points

- **Use Data Exchange to transfer files (SA <-> CS)**
 - UM Qty, MIP/MRC
- **Verify all uploads and PTD Releases via the Batch Monitor**
- **Backup your standalone database and avoid using the ICAPS installed database of icaps-local.db**
- **Use the correct DCN Flag (enter yellow and blue fields only)**
 - **N - New APL**
 - **E - ECP APL**
 - **U - APL Update (Adds/Deletes)**
 - **M - Data Element Maintenance (SM&R, QTY, etc.)**
 - **X - Combination of U and M**

ICAPS Modifications In Process

- **New MAPL Validations**
- **PCCN Duplication to allow the change of Activity Designators**
- **Data Exchange Modification**
- **New Utility to Delete all unused Part and NIIN Records in Standalone**
- **Numerous NAVICP modifications at the request of NAVICP**

NAVICP Tools

- **NAVICP has several in-house tools that permit the addition, deletion, and modification of UICP data. These tools are:**
 - **NAVICP-Mechanicsburg**
 - NAVICP-M FMT (via Oracle Tables)
 - C14LBC (via Oracle Tables)
 - PTSP (Mainframe)
 - PTWY (Mainframe)
 - PTEM (Mainframe)
 - **NAVICP-Philadelphia**
 - NAVICP-P FMT (via Oracle Tables)
 - PTSP (Mainframe)
 - PTEM (Mainframe)

NAVICP Tools

- **PTSP, PTEM, and PTWY are antiquated mainframe programs with direct access to the UICP data. These tools allow for direct updates of the UICP data with no validations applied, which adversely affects data integrity**
- **NAVICP-M FMT, C14LBC, and NAVICP-P FMT provide indirect access to UICP data via mid-tier Oracle tables. These tools allow for inquiry and updates of the UICP data with validations and generations applied to the updates. These are improved versions of the mainframe programs.**
 - NAVICP-M FMT updates the C10 portion of the UICP Files (NIIN Data, Part Data)
 - C14LBC updates the C14 portion of the UICP File (Level C, APL Data)
 - NAVICP-P FMT updates the Philadelphia MIF File

NAVICP Tools

- **Effort is underway to incorporate these tools under the ICAPS umbrella (Interfacing with NAVICP Oracle Tables)**
 - NAVICP-M FMT
 - NAVICP-M C14LBC
 - NAVICP-P FMT
- **The impetus of this effort is to consolidate ICAPS and the NAVICP Files Maintenance Tools into a single application to perform the initial load of the UICP and all follow-on updates of the data in the UICP files.**
- **Improved NAVSEA ISEA Query Capability of the UICP data (via the mid-tier Oracle tables)**

NAVICP Tools Status

- **Completed the Development of NAVICP-P FMT**
 - NAVICP-P is testing and providing feedback
 - Close to being approved
- **Completed the Development of NAVICP-M C14LBC tool**
 - NAVICP-M tested and provided feedback
 - NAVICP-M has accepted the C14LBC Task
- **Completed the Development of NAVICP-M FMT**
 - NAVICP-M has begun testing and will be providing feedback
- **All three efforts will be moved to Production upon approval**

APL Assignment Tool

- **NAVICP-M utilizes a Tool called the APL Assignment Tool to assign APLs to provisioning projects. They must assign the APL in this tool and then go back to ICAPS and manually re-enter a lot of the same information**
- **Target Systems is currently finalizing the APL Assignment Tool Migration and working with us to interface the two systems.**
 - A “live” interface to share data between data in the APL Assignment Tool and ICAPS will be developed to streamline and automate the APL Assignment process
 - The development of this interface will begin once the “New” APL Assignment Tool has been stood up

Master Allowance Parts List (MAPL)

- **Master Allowance Parts List (MAPL) Impact on ICAPS**
 - Responsibility of MAPL Data will be transferred to the TSA
 - MAPL Generated Errors will be the responsibility of the TSA
 - Additional validations and processing will be added to ICAPS to ensure data is processed to MAPL with a minimal amount of errors
 - A processing guidance document is in development that will assist the TSA in this new processing
- **Target Systems is currently finalizing the migration**
 - A “live” connection between ICAPS and MAPL will be developed to validate Reference Designators, etc. when data is released by the TSA
 - The development of this interface will begin once the “New” MAPL has been stood up

ICAPS (Active/Maintenance) - [Project Headers PCCN MAPLON]

File Utilities PLISN Access Data Access Reports Transfer Help

Project Header 1	Project Header 2	Status Data	Default/Propagation/Generation/Validation	RIC/UOC/Model Code	ARR Data	CID
PIIN/SPIIN		Nomenclature, Model, Type Number		Control Data		Prime CAGE
NO CONTRACT		NEW APL - ELECTRONICS		BASIC		12345
Contractor/TSA/NAVICP		Format	Project Type	1st Key PCCN	List Date	
Contractor	<input type="radio"/> CaNDI <input type="radio"/> PAL	<input checked="" type="radio"/> LMI <input type="radio"/> 1388-2A	<input type="radio"/> HME <input checked="" type="radio"/> Electronic	<input type="radio"/> 0rdnance <input type="radio"/> Other/AEL	<input type="radio"/> 00/00/0000	
TSA	NSLCOSOJAX	<input type="radio"/> NAVICP-M <input type="radio"/> 1388-2B	<input type="radio"/> NAVICP-P <input type="radio"/> 1552A		2nd Key PCCN	Date Created
NAVICP	NAVICP-M					11/30/2006
Navy Support	MSD / POC	PSD#	Submission Control	DCN Flag	Calculations	
00/00/0000	0000001	00/00/0000	NO PSD	00001	<input checked="" type="checkbox"/> N	<input checked="" type="radio"/> On <input type="radio"/> Off
Remarks						
Save		CCB Data	PLISN Data	Vals On	Close	

DCN Flag

Must = E, N, or U if Project Type = Electronics
DCN Flag cannot be M or X if PCCN is Electronics

Maintenance Actions for Electronics

- **DCN Flags of M and X are not valid for Electronics PCCNs**
 - To perform Maintenance to an APL or MAPL, a DCN Flag of U should be used
- **Non-Electronics Projects use DCN Flag of M and enter the NIIN and then enter the “to be” value with a TOC of “M”**
 - Change an SM&R Code for an item - enter NIIN and new SM&R
 - Change a Quantity of an item on an APL - enter NIIN and new QTY
- **Electronics Projects use DCN Flag of U and treat the change as an Add. The Add will be processed into MAPL and overlay the existing data for that RSN**
 - Change an SM&R Code for an item - Add PLISN with new SM&R
 - Change a Quantity of an item on an APL - Add PLISN with new QTY

ICAPS (Active/Maintenance) - [Project Headers PCCN MAPLON]

File Utilities PLISN Access Data Access Reports Transfer Help

Project Header 1	Project Header 2	Status Data	Default/Propagation/Generation/Validation		RIC/UOC/Model Code	ARR Data	CID
TSA Release	TSA Date	TSA Concurrence Required	NAVICP Release	NAVICP Date	Date Loaded To WSF	OR/SI	
<input type="checkbox"/>	12/08/2006	<input type="checkbox"/> N	<input type="checkbox"/>	00/00/0000	00/00/0000		
Incremental PCCN	Alteration Indicator	QPEI Method	Select Audit	Archive Upon Completion	Parts Loaded	APL Extract	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> S	<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	
MIF/WSF Refresh	Screen UICP/FLIS	Screening Out Date	Screening Return Date	ODRC	FLIS Out Count	Release to APL Q.A.	
<input type="checkbox"/>	<input type="checkbox"/>	00/00/0000	00/00/0000	<input type="checkbox"/>	<input type="checkbox"/> 0	<input type="checkbox"/>	
MAPL Input MAPL							
Save	CCB Data	PLISN Data	Vals On	Close			

MAPL Input
Must = MAPL or SUBST if PCCN is Electronics

MAPL Input Field

- **Required for Electronic Projects when data is released by the TSA and must = MAPL or SUBST**
 - Must = MAPL if Project Type = Electronics and DCN Flag = E or N
 - Must = MAPL or SUBST if Project Type = Electronics and DCN Flag = U
 - Generate to MAPL if blank for all Electronics Projects
 - An entry of SUBST in the MAPL Input field will delete all the data in MAPL for this APL and overlay it with the data in ICAPS. Are you sure this is what you want to do (Y/N)?

TSA PTD Release Validations

- **For DCN Flag of “N” and Project Type = Electronics**
 - All PLISNs must have a unique RSN
- **For DCN Flag of “E” and Project Type = Electronics**
 - All Add PLISNs must have a unique RSN
 - All Delete PLISNs must have a unique RSN
 - The Same RSN (D004) can be used for an Add and a Delete
- **For DCN Flag of “U” and Project Type = Electronics**
 - If MAPL Input = MAPL
 - All Add PLISNs must have a unique RSN
 - All Delete PLISNs must have a unique RSN
 - The Same RSN can be used for an Add and a Delete
 - If MAPL Input = SUBST
 - All PLISNs must be Adds (TOC=blank)
 - All PLISNs must have a unique RSN (D004)

Future ICAPS-MAPL Validations

- **For DCN Flag of “N” and Project Type = Electronics**
 - *If APL is entered, and that APL exists in MAPL, there must be no RSNs in MAPL*
- **For DCN Flag of “E” and Project Type = Electronics**
 - *If APL is entered, and that APL exists in MAPL, there must be no RSNs in MAPL*
- **For DCN Flag of “U” and Project Type = Electronics**
 - *APL must be in MAPL*
 - *All Delete PLISNs must have an RSN match in MAPL*
 - *Add PLISNs can be in MAPL and they will be treated as overlays if an RSN exists. If the RSN does not exist, it will be treated as an Add*

ICAPS Webpage

- URL: **<https://icaps.navsea.navy.mil>**
 - **ICAPS Log In**
 - **Installation Software/Instructions**
 - **User Access Form**
 - **Users Guide/Training Guide**
 - **ICAPS Processing Documents**
 - **Technical Related FAQ's**
 - **POC's**
 - **PCOE Webpage**
 - **ICAPS - Excel Macro and Instructions**

ICAPS POCs

- **Program Manager (NAVSEA 04L4)**
 - Chuck Simmons (215-897-1557, DSN 443)
 - charles.r.simmons@navy.mil
- **Project Manager**
 - Rick Chambers (904-270-6304 X133, DSN 960)
 - richard.j.chambers@navy.mil; icaps@navy.mil
- **Citrix Support**
 - Clyde Pfleegor (301-744-6228, DSN 354)
 - clyde.pfleegor@navy.mil
- **NAVICP-Mechanicsburg Support**
 - Carl Knapp (717-605-6772, DSN 430)
 - carl.knapp@navy.mil